**IN THE CLAIMS**

Please amend the claims as follows:

1. Currently amended) A spectrophotometer having

a light source for emitting ~~an optical beam~~ a sample optical beam and a reference optical beam,

a photodetector that changes in sensitivity with changes in applied voltage,

an analog-to-digital converter by which electrical signals from said photodetector are converted into digital signals,

a digital storage means for storage of said digital signals corresponding to the light of said beam, and

a control means for controlling a voltage applied to said photodetector,

wherein said control means is further equipped with an applied voltage storage means for previously storing said applied voltage corresponding to a wavelength thereof, said applied voltage being corrected so as to be in a proper range, wherein

when measuring a sample, so as to detect said sample optical beam and said reference optical beam, a voltage value corresponding to said wavelength to be measured is read out from said applied voltage storage means so as to apply a voltage having said voltage value to said photodetector.

2. (Currently amended) A spectrophotometer having

a light source for emitting an optical beam,

a beam splitting means by which ~~the~~ said optical beam that has been emitted from said light source is split into two beams of a sample optical beam and a reference optical beam,

a photodetector that changes in sensitivity with changes in applied voltage,

an analog-to-digital converter by which electrical signals from said photodetector are converted into digital signals, and

a control means for controlling said applied voltage to said photodetector and for calculating a ratio of the outputs of said photodetector corresponding to said two beams,

wherein said control means is further equipped with an applied voltage storage means for previously storing said applied voltage corresponding to a wavelength thereof, said applied voltage being corrected so as to be in a proper range,

wherein when measuring a sample so as to detect said sample optical beam and said reference optical beam, a voltage value corresponding to said wavelength of said sample optical beam and said reference optical beam to be measured is read out from said applied voltage storage means so as to apply a voltage having said voltage value to said photodetector.

3-5. Canceled.

6. (Previously Presented) A spectrophotometer as set forth in claim 1, wherein when said voltage value is stored in said applied voltage storage means, said sample is measured with a wavelength movable velocity limited within a predetermined range.

7. (Previously Presented) A spectrophotometer as set forth in claim 2, wherein when said voltage value is stored in said applied voltage storage means, said sample is measured with a wavelength movable velocity limited within a predetermined range.

8. (Previously Presented) A spectrophotometer as set forth in claim 1, further comprising:

a display for displaying a state and result obtained by measuring the sample, and

when measuring the sample, if said voltage value is not stored in said applied voltage storage means, a warning message is displayed on said display.

9. (Previously Presented) A spectrophotometer as set forth in claim 2, further comprising:

a display for displaying a state and result obtained by measuring the sample, and

when measuring the sample, if said voltage value is not stored in said applied voltage storage means, a warning message is displayed on said display.